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0460/13

May/June 2016

1 hour 45 minutes

Candidates answer on the Question Paper.

Additional Materials: Calculator
 Ruler

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name in the spaces provided.

Write in dark blue or black pen.

You may use an HB pencil for any diagrams or graphs.

Do not use staples, paper clips, glue or correction fluid.

DO **NOT** WRITE IN ANY BARCODES.

Write your answer to each question in the space provided. If additional space is required, you should use the lined pages at the end of this booklet. The question number(s) must be clearly shown.

Answer **three** questions, **one** from each section.

The Insert contains Photographs A and B for Question 2 and Photographs C and D for Question 3.

The Insert is **not** required by the Examiner.

Sketch maps and diagrams should be drawn whenever they serve to illustrate an answer.

At the end of the examination, fasten all your work securely together.

The number of marks is given in brackets [] at the end of each question or part question.

Definitions:

MEDCs – More Economically Developed Countries

LEDCs – Less Economically Developed Countries

The syllabus is approved for use in England, Wales and Northern Ireland as a Cambridge International Level 1/Level 2 Certificate.

This document consists of **32** printed pages and **1** Insert.

Section A

Answer **one** question from this section.

QUESTION 1

- 1 (a) Study Fig. 1, which shows information about migration.

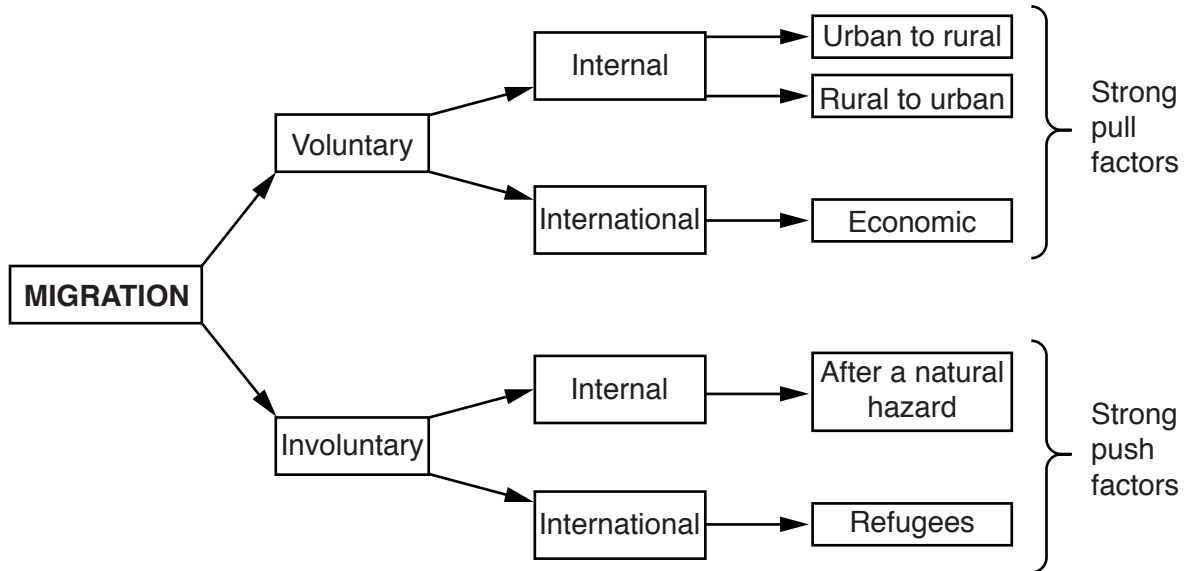


Fig. 1

- (i) What is meant by *migration*?

.....

 [1]

- (ii) Complete the following definitions of types of migration by using arrows to match the correct terms and definitions. The first one has been done for you.

Voluntary	←	People are forced to migrate
Involuntary		Migration within a country
International	→	People choose to migrate
Internal		Migration from one country to another

[2]

(iii) Describe the impacts of rural to urban migration on the **rural** area.

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..... [3]

(iv) Explain how economic factors can cause international migration.

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..... [4]

- (b) Study Fig. 2, which shows information about international migration for Indonesia and Singapore in 2010. Indonesia and Singapore are countries in South East Asia.

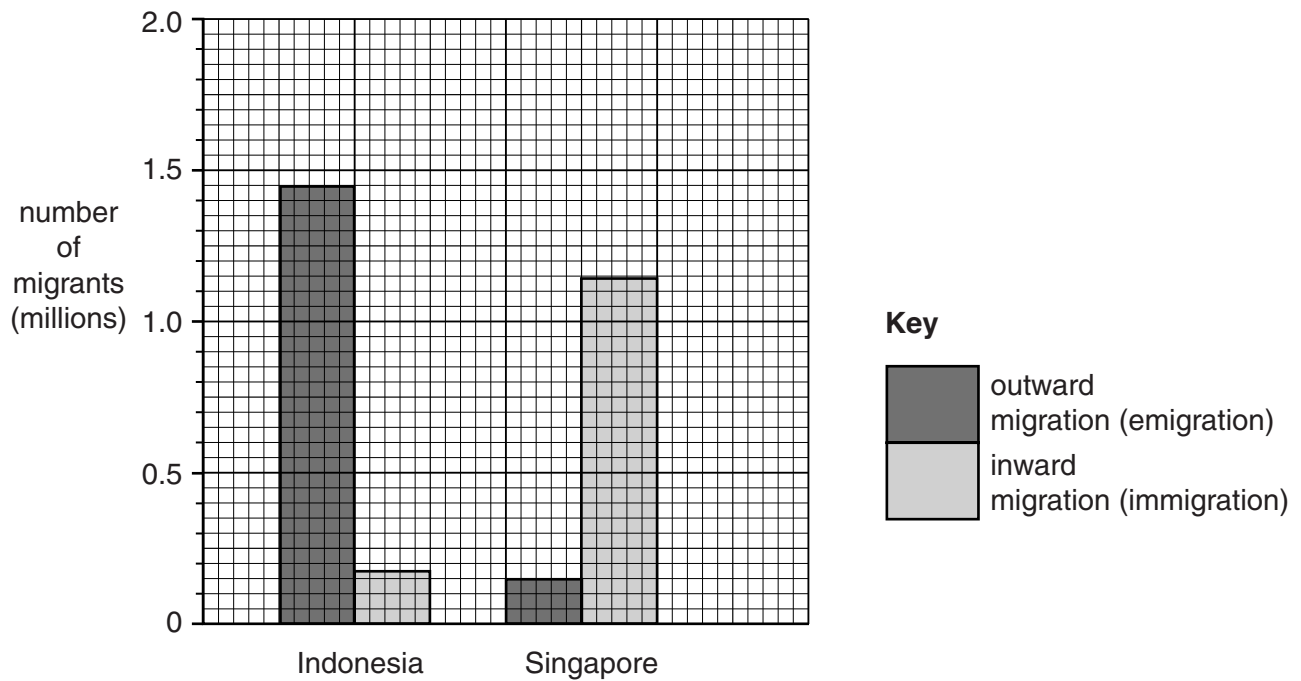


Fig. 2

- (i) Using Fig. 2 **only**, compare Indonesia's net migration with that of Singapore. Include statistics in your answer.

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..... [3]

(ii) Describe the positive impacts of international migration on **destination** countries.

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..... [5]

- (c)** For a named urban area you have studied, describe the problems faced by migrants living in squatter settlements.

Name of urban area

..... [7]

[Total: 25 marks]

END OF QUESTION 1

QUESTION 2

- 2 (a) Study Fig. 3, which shows information about land use in Bergen, an urban area in Norway (an MEDC in Europe).

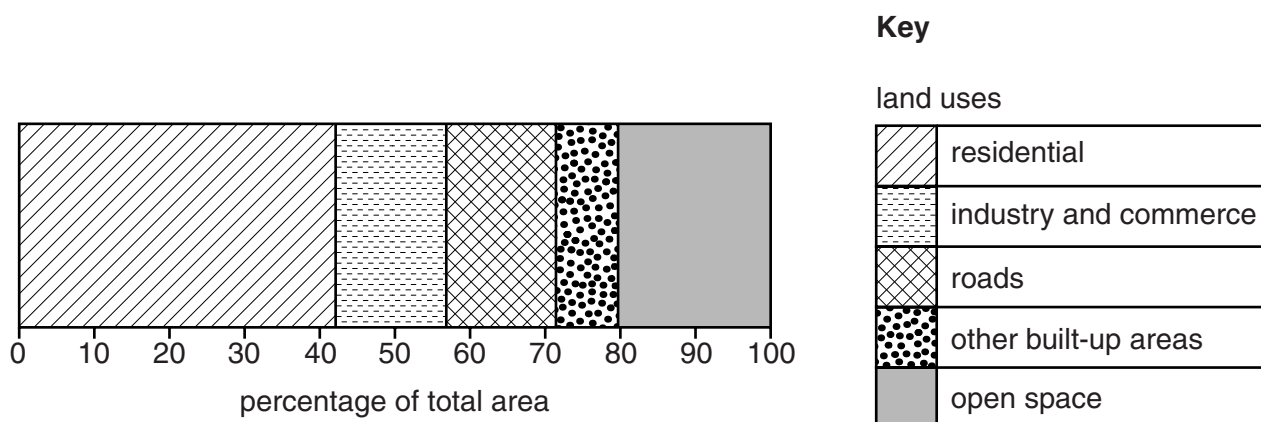


Fig. 3

- (i) What percentage of Bergen's area is used for industry and commerce?

.....%

[1]

- (ii) Compare the percentages of land used in Bergen for residential and open space.

.....

.....

.....

..... [2]

- (iii) Suggest **three** likely uses of open space in Bergen.

1

2

3 [3]

(b) Study Photographs A and B (Insert), which show parts of Stavanger, another urban area in Norway.

(i) Use evidence from Photographs A and B to identify **three** different land uses in Stavanger.

1

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2

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3

..... [3]

(ii) Use evidence from Photographs A and B, and your own knowledge, to explain why some settlements develop as ports.

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..... [4]

- (iii) One type of urban zone is the Central Business District (CBD). Describe the typical characteristics of the CBD of an urban area.

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..... [5]

TURN PAGE FOR QUESTION 3

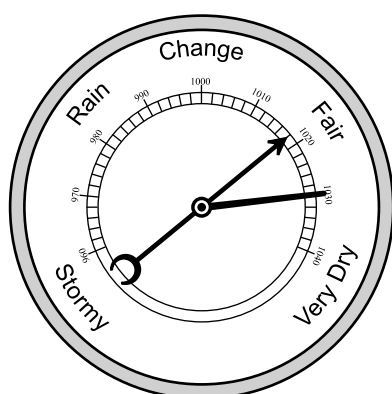
Section B

Answer **one** question from this section.

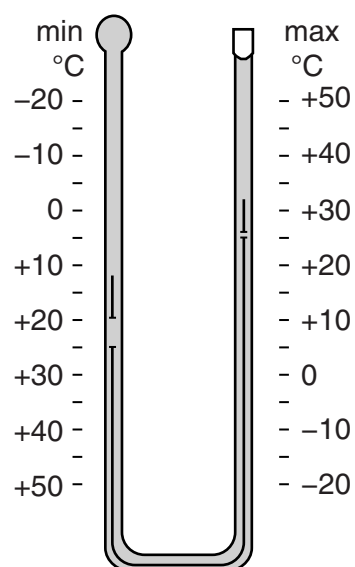
QUESTION 3

- 3 (a) Study Fig. 4, which shows four instruments used at a school weather station.

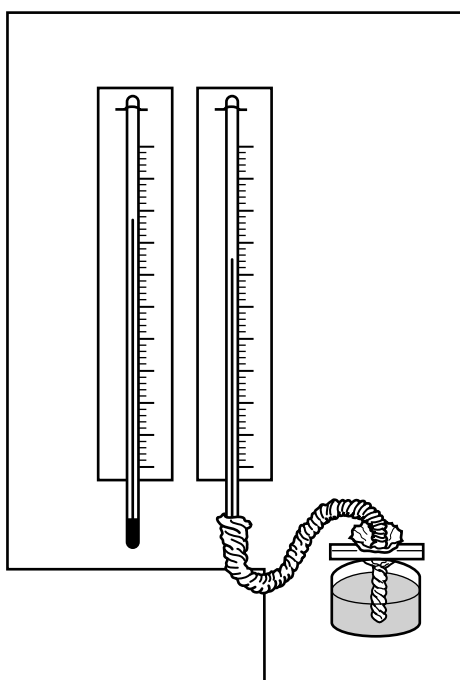
Instrument P



Instrument Q



Instrument R



Instrument S

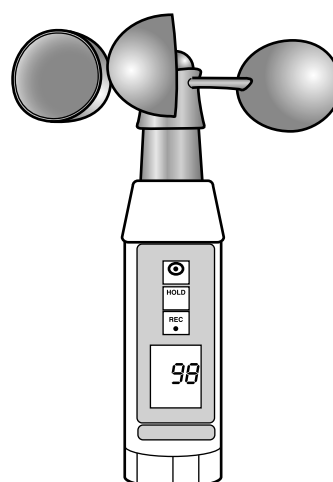
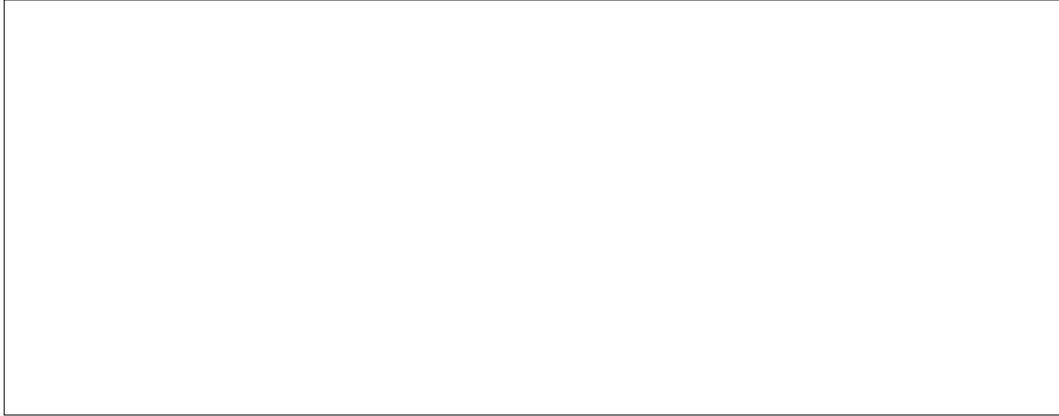


Fig. 4

- (i) Which weather characteristic will the students measure with instrument **P**?

..... [1]

- (ii) Use instrument **Q** to work out the daily range of temperature. Show your calculations.



[2]

- (iii) Identify the weather instruments labelled **Q**, **R** and **S**.

Q

R

S

[3]

- (iv) Explain why:

- instruments **Q** and **R** are kept in a Stevenson Screen;

.....

- instrument **S** is sited on the roof of the school.

.....

 [4]

(b) Study Photographs C and D (Insert), which show different types of clouds.

(i) Describe **three** differences between the clouds shown in Photographs C and D.

- 1
-
- 2
-
- 3
- [3]

(ii) Describe the processes which result in large amounts of cloud forming in areas of Equatorial climate.

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-
-
-
-
-
-
-
- [5]

- (c)** For a named area of tropical rainforest you have studied, explain how its characteristics are influenced by the Equatorial climate.

Name of area

[7

[Total: 25 marks]

END OF QUESTION 3

QUESTION 4

- 4 (a) Study Fig. 5, which shows information about the flows which take place in a drainage basin.

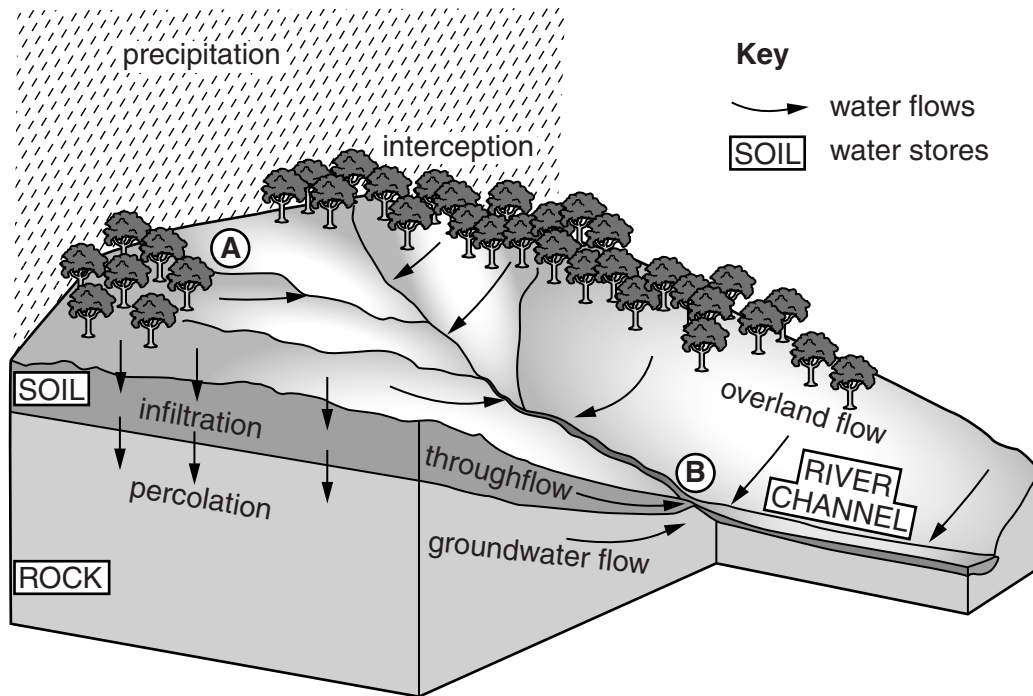


Fig. 5

- (i) What is meant by *drainage basin*?

.....

 [1]

- (ii) Identify from Fig. 5 a flow which takes place:

- in the soil;
- in the rock.

[2]

- (iii) Explain why the amount of interception may vary within the drainage basin shown in Fig. 5.

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..... [3]

- (iv) Describe how the characteristics of the river are likely to change between points **A** and **B** on Fig. 5.

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..... [4]

(b) Study Fig. 6, which shows a map of the delta of the River Nile.

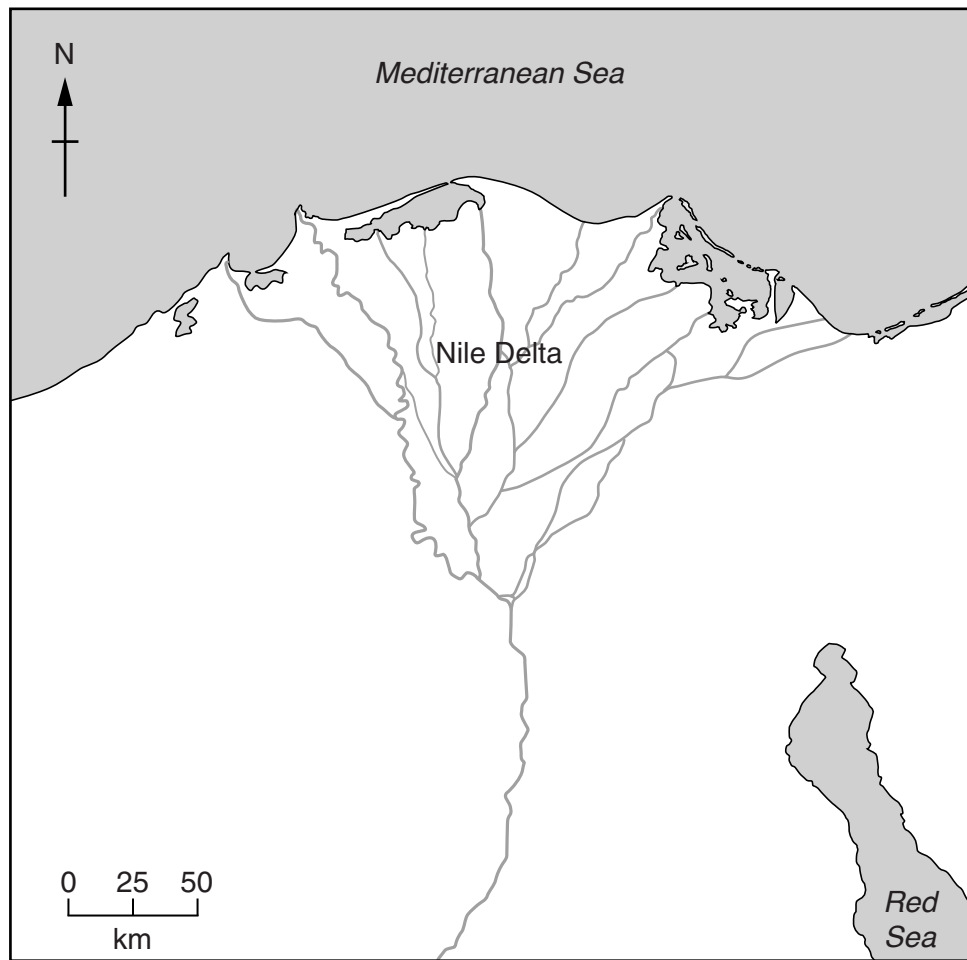


Fig. 6

(i) Using Fig. 6 **only**, describe **three** characteristics of the delta of the River Nile.

- 1
-
- 2
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- 3
- [3]

(ii) Explain how a delta is formed.

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..... [5]

Section C

Answer **one** question from this section.

QUESTION 5

- 5 (a) Study Fig. 7, which shows information about world energy production.

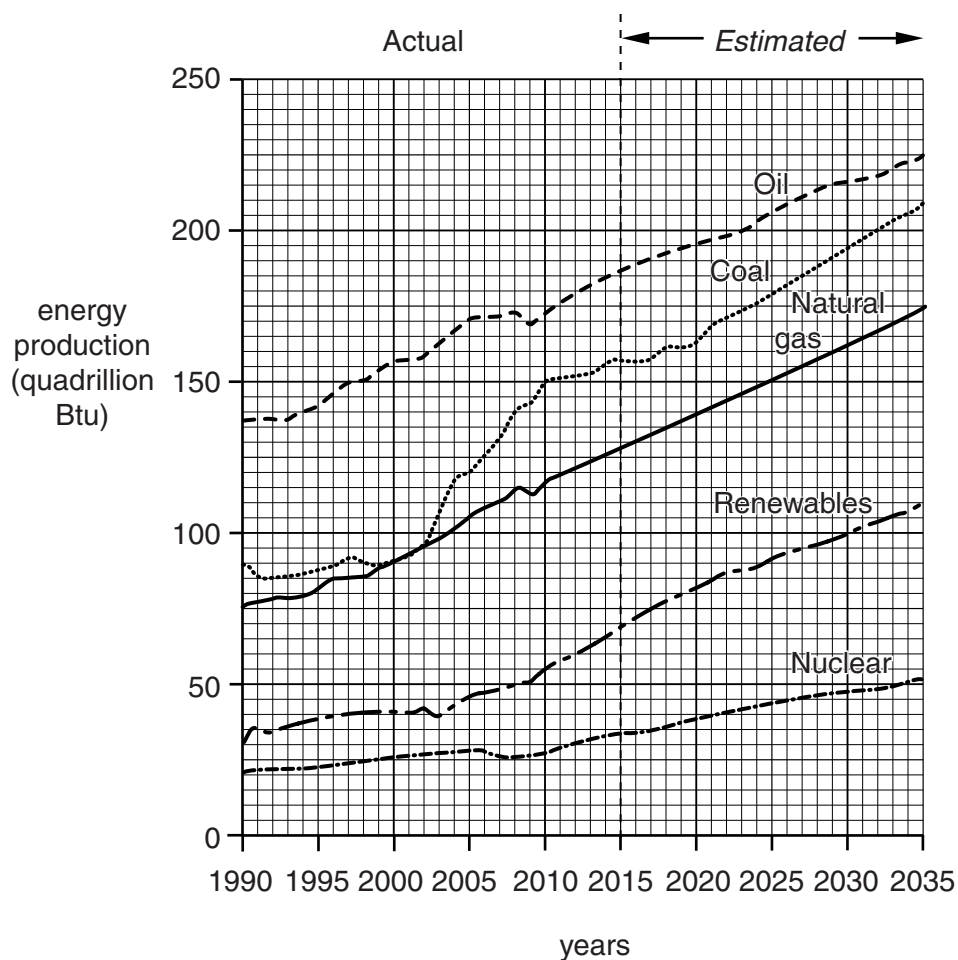


Fig. 7

- (i) State the amount of energy produced by nuclear power in 2015.

..... quadrillion Btu

[1]

- (ii) Which form of energy production:

– increased most rapidly between 2000 and 2015;

– is estimated to double between 2010 and 2035?

[2]

- (iii) Describe **three** problems of relying on fossil fuels, such as oil, coal and natural gas, as sources of energy.

1

.....

2

.....

3

..... [3]

- (iv) Describe **two** benefits and **two** problems of using nuclear power as a source of energy.

Benefit 1

.....

Benefit 2

.....

Problem 1

.....

Problem 2

..... [4]

- (b) Study Fig. 8, which shows the location of proposed new offshore wind turbines in part of north east USA.

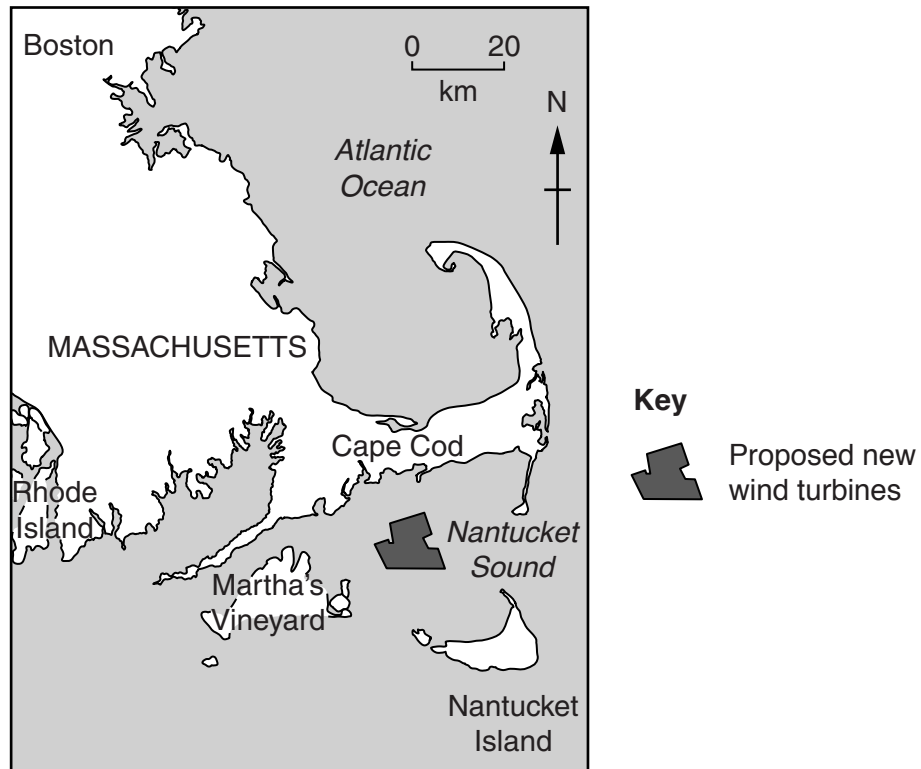


Fig. 8

- (i) Describe the location of the proposed new offshore wind turbines shown in Fig. 8.

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..... [3]

- (ii) Explain why people living in Cape Cod are likely to have contrasting opinions about the proposed offshore wind turbines.

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..... [5]

- (c)** For an example you have studied, describe and explain the location of an industry. You should choose an example from manufacturing, processing, assembly or high technology industry.

Type of industry

Location

..... [7]

[Total: 25 marks]

END OF QUESTION 5

QUESTION 6

- 6 (a) Study Fig. 9, which shows information about the use of water in selected countries.

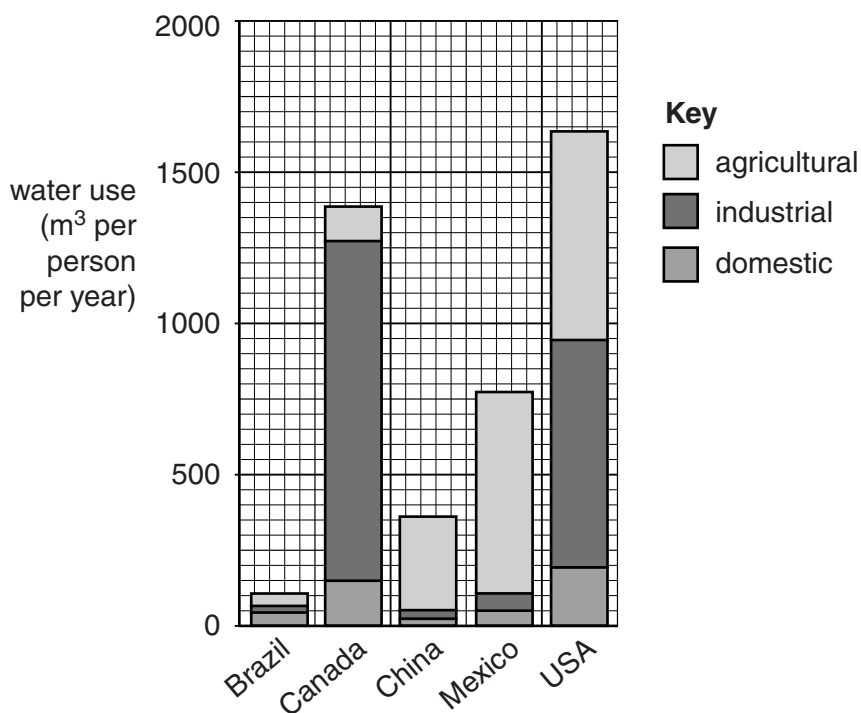


Fig. 9

- (i) Put the following countries in rank order according to their total use of water per person per year.

Brazil

China

USA

1st highest

2nd

3rd lowest

[1]

- (ii) What is meant by the following uses of water?

– domestic

.....

– industrial

..... [2]

- (iii) Using Fig. 9 **only**, compare the use of water in Canada (an MEDC) and Mexico (an LEDC).

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..... [3]

- (iv) Suggest reasons for the differences in the use of water in Canada and Mexico.

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..... [4]

- (b) Study Fig. 10, which shows information about the water supply of the city of Vienna, in Austria (an MEDC in Europe).

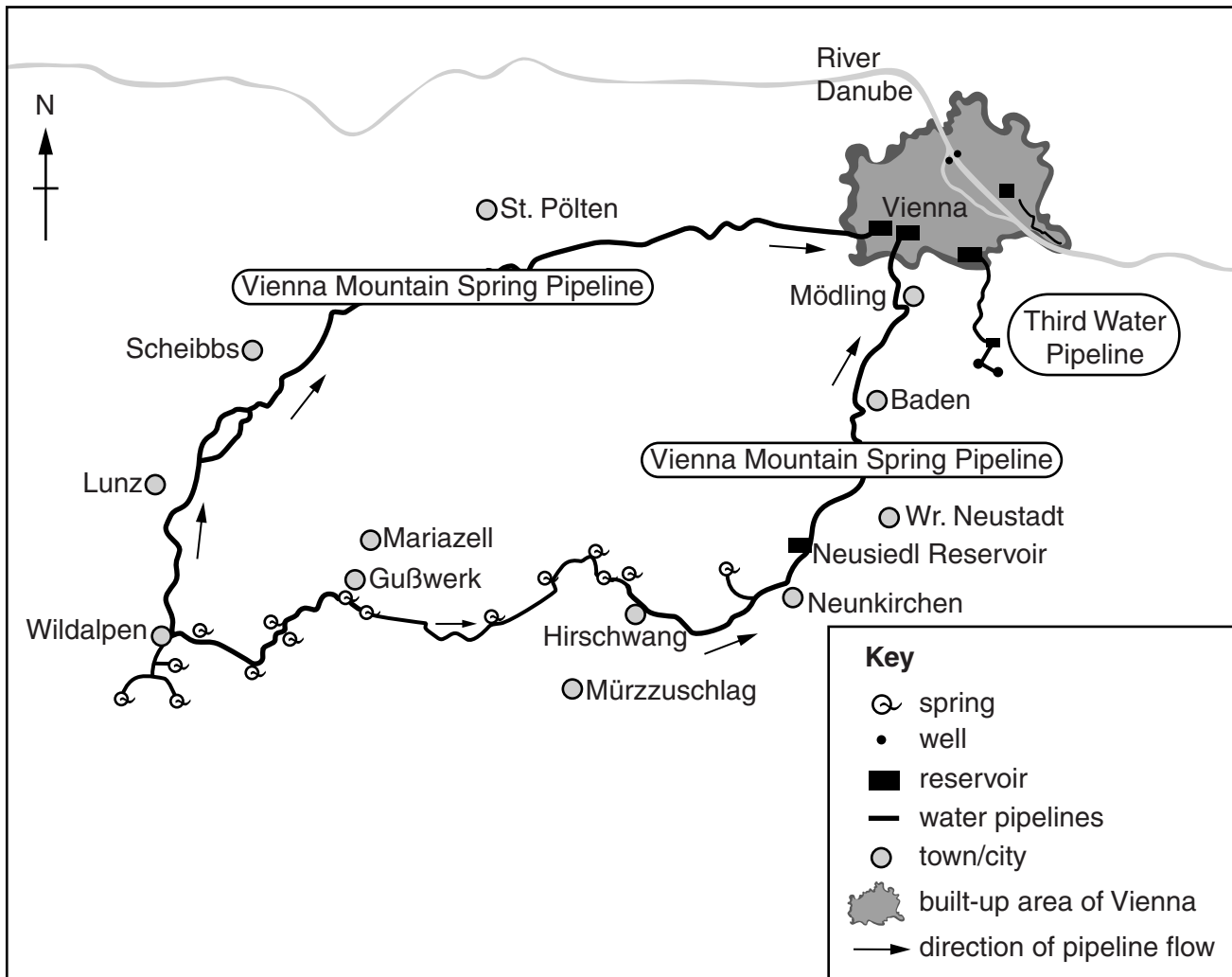


Fig. 10

- (i) Using Fig. 10, identify **three** different methods which Vienna uses to obtain water.

- 1
- 2
- 3

[3]

- (ii) Explain the importance to the people and economy of a city of having a good water supply system.

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..... [5]

..... [7

END OF QUESTION 6

This image shows a full page of a handwriting practice worksheet. It consists of multiple rows of horizontal dashed lines spaced evenly down the page, providing a guide for letter height and placement. The background is plain white, and there are no other markings or text present.

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